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# NOTICE OF ALLOWANCE AND FEE(S) DUE

466

7590

04/12/2002

YOUNG & THOMPSON 745 SOUTH 23RD STREET 2ND FLOOR ARLINGTON, VA 22202

**EXAMINER** HOANG, QUOC DINH CLASS-SUBCLASS ART UNIT 257-208000 2818

DATE MAILED: 04/12/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/613,331	07/07/2000	MASAMOTO TAGO	WN-2205	9072

TITLE OF INVENTION: SYSTEM SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME

TOTAL CEAIMS	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
19	nonprovisional	NO	\$1280	\$0	\$1280	07/12/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B.- Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing n applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



#### PART B - FEE(S) TRANSMITTAL

Complete and mail this form, together with applicable fee(s), to:

**Assistant Commissioner for Patents** 

Washington, D.C. 20231

MAILING INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE	ADDRESS (Note: Legibly mark-up	with any corrections or use Bl	lock 1)
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7590

04/12/2002

YOUNG & THOMPSON 745 SOUTH 23RD STREET 2ND FLOOR **ARLINGTON, VA 22202** 

Note: The certificate of mailing below can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing.

Certificate of Mailing

I hereby certify that this Fee(s) Transmittal is being deposited with the
United States Postal Service with sufficient postage for first class mail in an
envelope addressed to the Box Issue Fee address above on the date
indicated below.

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TOTAL CLAIMS	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
19	nonprovisional	NO	\$1280	\$0	\$1280	07/12/2002
EXA	MINER	ART UNIT	CLASS-SUBCLAS	SS	-	
HOANG, QUOC DINH 2818		257-758000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Use of PTO form(s) and Customer Number are recommended, but not required.  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47) attached.			the names of up to or agents OR, all single firm (havi- attorney or agent	the patent front page, I to 3 registered patent attatematively, (2) the name as a member a region and the names of up and the names of up attorneys or agents. If no will be printed.	orneys 1se of a stered 2	· · · · · · · · · · · · · · · · · · ·

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categorie	es (will not be printed on the patent)	☐ individual ☐ corporation or other private group entity ☐ government		
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the amount	of the fee(s) is enclosed.		
☐ Publication Fee	☐ Payment by credit card. Form PTO-2038 is attached.			
Advance Order - # of Copies	☐ The Commissioner is be Deposit Account Number	hereby authorized by charge the required fee(s), or credit any overpayment, to er(enclose an extra copy of this form).		
The COMMISSIONER OF PATENTS AND TRADEMAI application identified above.		e and Publication Fee (if any) or to re-apply any previously paid issue fee to the		
(Authorized Signature)	(Date)			
NOTE; The Issue Fee and Publication Fee (if required other than the applicant; a registered attorney or agen interest as shown by the records of the United States Pate Burden Hour Statement: This form is estimated to take 0 depending on the needs of the individual case. Any common to complete this form should be sent to the Chief Informand Trademark Office. Washington, D.C. 2023 J. DO N	i; or the assignee or other party in and Trademark Office.  2 hours to complete. Time will vary necessary of the amount of time required mation Officer. United States Patent			
and Trademark Office, Washington, D.C. 20231. DO N FORMS TO THIS ADDRESS. SEND FEES AND Assistant Commissioner for Patents, Washington, D.C. 2				
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			EXAMINER	
			HOANG, QUOC DINH	
		R	ART UNIT	PAPER NUMBER
ŕ			2818	
·			DATE MAILED: 04/12/2002	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 124 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 124 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

		Application No.	Applicant(s)		
		09/613,331	TAGO ET AL.		
Notic	f Allowability	Examiner	Art Unit		
		Over D. Hanna	2010		
		Quoc D Hoang	2818		
All claims being allowable, herewith (or previously mai NOTICE OF ALLOWABILI of the Office or upon petitio	n by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject and MPEP 1308.	oplication. If not included		
_	is responsive to the Amendment on 0	3/25/2002.			
2. The allowed claim(s		•			
	n <u>07 July 2000</u> are accepted by the E				
	made of a claim for foreign priority und	der 35 U.S.C. § 119(a)-(d) or (f).			
, —	Some* c) None of the:				
_	copies of the priority documents have				
	copies of the priority documents have				
3. Copies	of the certified copies of the priority do	cuments have been received in this	national stage application from the		
Intern	national Bureau (PCT Rule 17.2(a)).				
* Certified copies no					
5. Acknowledgment is	made of a claim for domestic priority u	nder 35 U.S.C. § 119(e) (to a provis	sional application).		
(a) The translatio	n of the foreign language provisional a	pplication has been received.			
6. Acknowledgment is	made of a claim for domestic priority u	nder 35 U.S.C. §§ 120 and/or 121.			
below. Failure to timely co	mply will result in ABANDONMENT of TH OR DECLARATION must be submuce LICATION (PTO-152) which gives reas	this application. THIS THREE-MC nitted. Note the attached EXAMINE	complying with the requirements noted NTH PERIOD IS NOT EXTENDABLE.  R'S AMENDMENT or NOTICE OF a deficient.		
(a) including chang	ges required by the Notice of Draftsper	son's Patent Drawing Review ( PTC	D-948) attached		
<i>,</i> —	or 2)  to Paper No  ges required by the proposed drawing	correction filed which has	neen approved by the Evaminer		
(c) including chang	ges required by the attached Examiner	's Amendment / Comment or in the	Office action of Paper No		
Identifying indicia such a of each sheet. The draw	as the application number (see 37 CFR 1 ings should be filed as a separate pape	.84(c)) should be written on the draw with a transmittal letter addressed to	rings in the top margin (not the back) o the Official Draftsperson.		
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s)					
5 Information Disclosure	Cited (PTO-892) s Patent Drawing Review (PTO-948) s Statements (PTO-1449), Paper No Regarding Requirement for Deposit	4☐ Interview Sumr 6☐ Examiner's Am	nal Patent Application (PTO-152) nary (PTO-413), Paper No endment/Comment tement of Reasons for Allowance		
		$\mathcal{G}$			
		David Nelms			
		Supervisory Patent Examiner			
		Technology Center 2800			

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# Response to Amendment

- 1. This office action is in response to the Amendment filed on 03/25/2002.
  - Claims 3-5 and 8 have been cancelled.
  - Claim 23 is newly added.
  - Claims 1-2, 6-7 and 9-23 are pending in the application.

# Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance:

Claims 1-2, 6-7 and 9-23 are allowable over the prior art of record because none of the prior art whether taken singularly or in combination, especially when these limitations are considered within the specific combination claims, to teach a plurality of functional blocks in a system LSI cell are electrically connected to each other by using a global wiring layer, wherein the system LSI cell is connected to the global wiring layer with a space through inner bumps.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

# Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc Hoang whose telephone number is (703) 306-5795. The examiner can normally be reached on Monday -Friday from 8.00 AM to 5.00 PM.

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Art Unit: 2818

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

David Nelms., can be reached on (703) 308-4910.

Quoc Hoang Examiner Group 2818

David Nelms
Supervisory Patent Examiner
Technology Center 2800